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23 MARCH 1966
PAGES <u>5</u>
PAGE _/ OF ___
COPY OF

TROPOSCATTER FACILITIES

TYPES AND DEPLOYMENT, USSR

- 1. <u>SIGNIFICANCE</u>: DEPLOYMENT AND COMPARISON OF TYPE I AND II TROPOSCATTER FACILITIES IN THE USSR.
- 2. REMARKS: FIFTEEN TROPOSCATTER FACILITIES OF 2 DIFFERENT TYPES HAVE

 BEEN IDENTIFIED IN THE USSR ON KH PHOTOGRAPHY. THE EARLIER

 IDENTIFIED CONFIGURATION, CONSISTING OF HORIZONTALLY

 CYLINDRICAL ANTENNA REFLECTORS, HAS BEEN DESIGNATED "TYPE I"

 AND HAS BEEN OBSERVED AT MURMANSK (2 FACILITIES) AND MYS

 SERDTSE-KAMEN. THE LATER IDENTIFIED CONFIGURATION, CON
 SISTING OF "BILLBOARD" TYPE ANTENNA REFLECTORS, HAS BEEN

 DESIGNATED "TYPE II" AND HAS BEEN OBSERVED AT YENISEYSK,

 OKHOTSK, YAKUTSK, IGARKA, SANGAR, ZHIGANSK, MAGADAN, AMDERMA,

 TIKSI, VORKUTA, ANADYR, AND TALDOM. EXCEPT FOR THE AMDERMA

 AND TALDOM FACILITIES, THE "TYPE II" FACILITIES ARE IN THE

 EARLY-TO-MID STAGES OF CONSTRUCTION.

THE TROPOSCATTER FACILITIES IDENTIFIED TO DATE HAVE BEEN DEPLOYED IN APPROXIMATELY THE SAME MANNER AS SOVIET AIR WARNING FACILITIES AND COULD SERVICE THIS NETWORK.

. IOCATION: SEE ATTACHED MAP.

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		. 23 MARCH 1966	
		PAGE <u>3</u>	
E	5. FIRST ID	ENTIFICATION:	
ĺ		murmansk -	25 X
		SANGAR	207
		YENISEYSK	
		AMDERMA	
6	6. NEGATION		
		NT COVERAGE:	
		MURMANSK ·	25 X
	•	SANGAR	20,
		YENISEYSK	
		AMDERMA NONE	
8	B. DIMENSIO	NS/SPECIFICATIONS:	
		MURMANSK (TYPE I): MESH REFLECTOR - APPROXIMATELY 225 FT LONG.	
		AMDERMA: ANTENNA - 140 FT TOTAL HEIGHT	
		ANTENNA REFLECTOR - 70 FT HEIGHT, 60 FT WIDTH	
		FEED TOWER - 55 FT HEIGHT	
		ORIENTATION OF REFLECTORS -	25)
		THE AMDERMA FACILITY IS THE ONLY ONE OF TYPE II TO DATE	
		WITH THE ANTENNA ERECTED IN OPERATING, AND THUS MEASURABLE,	
		POSITION.	
Ş	READOUT:	THE "TYPE I" TROPOSCATTER FACILITY # 1 AT MURMANSK CONSISTS	
_		OF A SINGLE HORIZONTAL PARABOLIC CYLINDRICAL WIRE MESH REFLECTOR.	
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23 MARCH 1966 PAGE 4

THE "TYPE II" SUSPECT TROPOSCATTER FACILITY AT SANGAR IS IN THE EARLY STAGES OF CONSTRUCTION. ACTIVITY CONSISTS OF 16 CIRCULAR EXCAVATIONS IN 4 ROWS OF 4 EXCAVATIONS EACH (SUSPECT ANTENNA FOOTINGS); 2 LARGE, RECTANGULAR FLAT-ROOFED CONTROL/SUPPORT BUILDINGS; APPROXIMATELY 10 SMALL BUILDINGS NEAR THE EXCAVATIONS; AND SUPPORT VANS.

THE PROBABLE TROPOSCATTER FACILITY OF "TYPE II"

CONFIGURATION AT YENISEYSK IS IN THE MID-STAGE OF CONSTRUCTION.

THE OPERATIONS AREA CONSISTS OF 1 PROBABLE TRANSMITTING

BUILDING WITH A CUPOLA-TYPE STRUCTURE ON ITS ROOF, FLANKED

ON EACH SIDE BY A LARGE PROBABLE TROPOSCATTER ANTENNA UNDER

CONSTRUCTION WHICH IS COMPOSED OF VERTICAL AND HORIZONTAL

STEEL MULLIONS ANCHORED WITH LARGE CONCRETE FOOTINGS AND PIERS.

AT LEAST 8 OTHER ANCHORS ARE LOCATED TO THE NNW. AREA ALSO

CONTAINS A LARGE SUPPORT BUILDING, NUMEROUS GROUND SCARS AND

CRATES, AND AT LEAST 6 SUPPORT VANS.

THE "TYPE II" TROPOSCATTER FACILITY AT AMDERMA, IN

LATE STAGES OF CONSTRUCTION, CONTAINS 2 REFLECTORS, A

TRANSMITTING BUILDING, 3 CONTROL/SUPPORT BUILDINGS, AT LEAST

VANS, EXTENSIVE GROUND SCARRING AND EXCAVATION WORK, AND

FEED TOWERS.

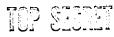
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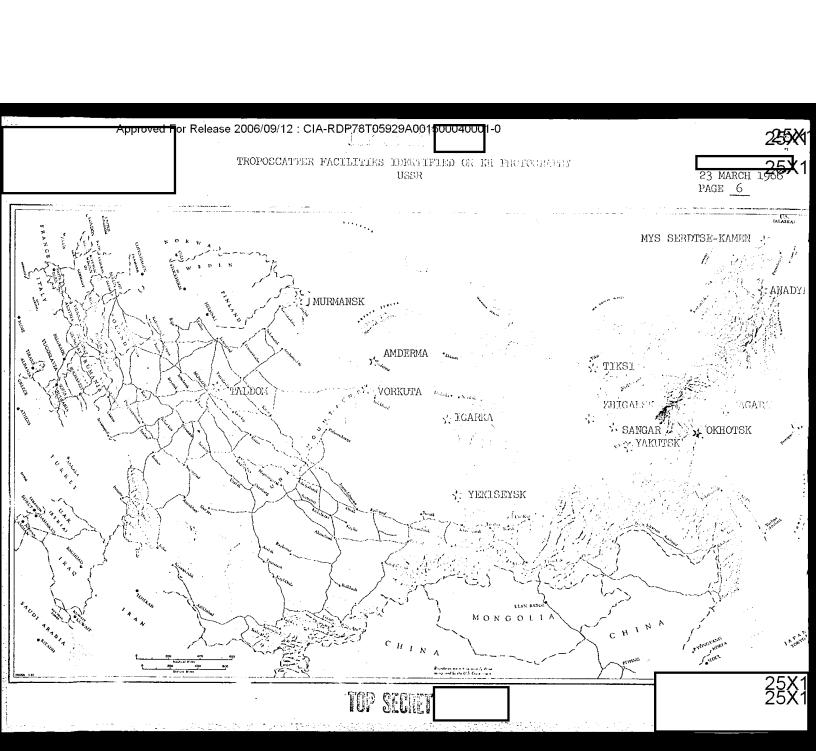


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(MURMANSK	
(SANGAR	
(YENISEYSK	
(AMDERMA -	

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23 MARCH PAGE 7

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